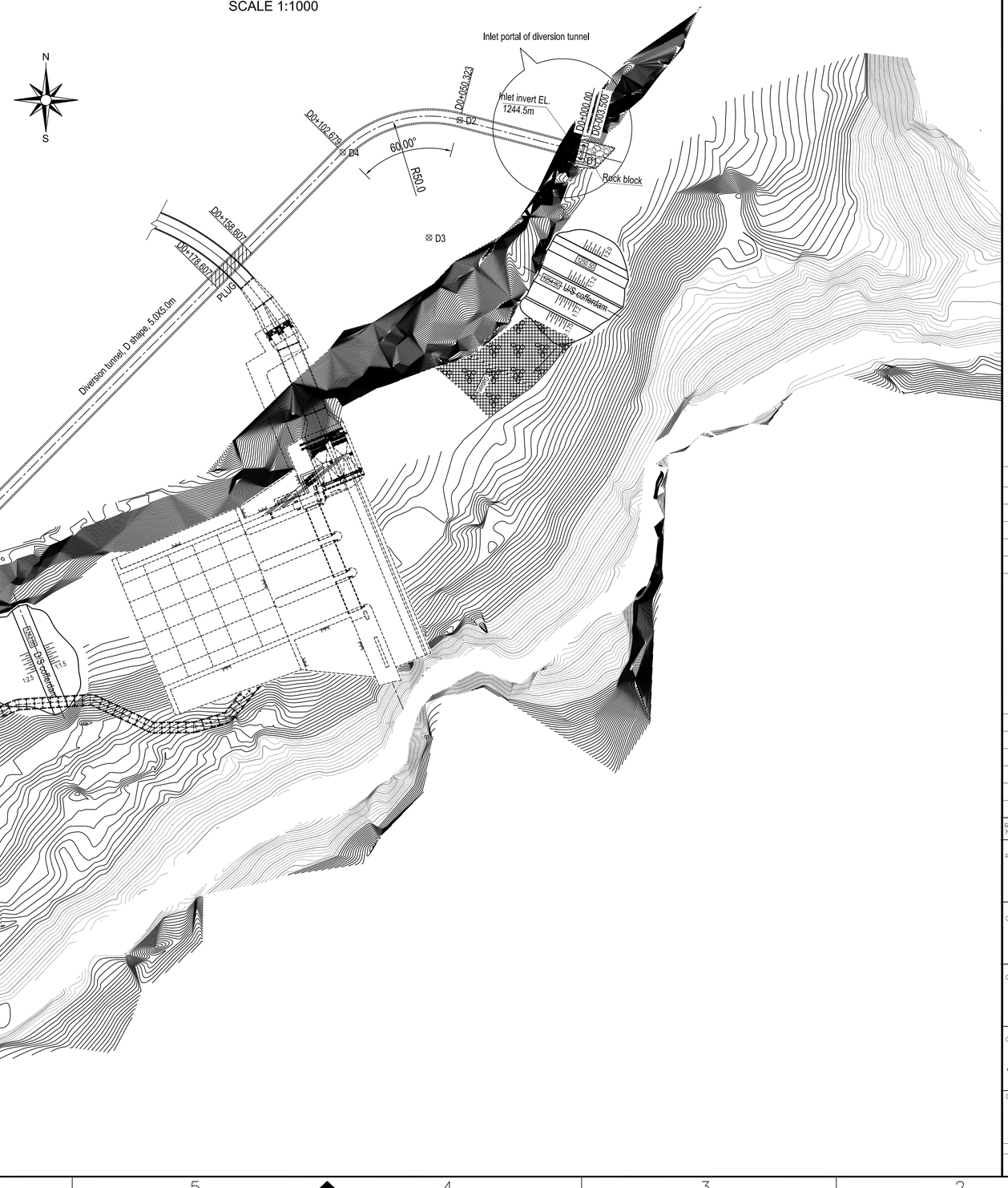
GENGRAL PLAN OF DIVERSION TUNNEL

SCALE 1:1000



DIVERSION STRUCTURE DESIGN CHARACTERISTICS

ITEM	UNIT	CHARACTERISTIC INDEX
Diversion standard	%(Dry season-November to April)	5.0000
Diversion flow	m^3/s	208.0000
Discharge structure	/	Diversion tunnel
Diversion tunnel length	m	413.0420
Diversion tunnel section size	m	5.0×5.0(Width×Height)
Invert elevation of inlet and outlet	m	1244.5/1231.0
Soleplate gradient	%	3.32
Water retaining structure	/	Cofferdam
Upstream/downstream water level	m	1251.5/1234.1
Top elevation of upstream/downstream cofferdam	m	1253.0/1235.5
Upstream/downstream coffdrdam maximum height	m	12.0/5.0

CONTROL POINT COORDINATES

	X(m)	Y(m)
D1	627707.453	3112648.317
D2	627658.766	3112661.046
D3	627646.120	3112612.672
D4	627610.552	3112647.814
D5	627411.736	3112446.593
D6	627443.747	3112414.965
D7	627399.384	3112422.513

NOTE

1.This set of drawings are the arrangement of diversion tunnel.
2.Elevations and chainages are in meter, other dimensions are in centimeter.
3.Structures shown on the drawing with the exception of diversion tunnel are sketches only.
4.The diversion structure design characteristics table is tentative.
5.The alignment etc., location of portals etc. are subject to approval.
6.Scale:

1:1000 0 10 20 30 40 50m

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42002	EXCAVATION AND SUPPORT DRAWING OF INLET AND OUTLET PORTAL OF DIVERSION TUNNEL
UT1-C-010-CVL-DG-42003	EXCAVAITON AND INITIAL SUPPORT DRAWING OF DIVERSION TUNNEL

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
C	20.JAN.2022	FOR APPROVAL	DONG Z.Z.	K.J.KIM	Y.S.SON
B	31.DEC.2021	FOR APPROVAL	DONG Z.Z.	K.J.KIM	Y.S.SON
A	25.DEC.2021	FOR APPROVAL	DONG Z.Z.	K.J.KIM	Y.S.SON

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE　jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

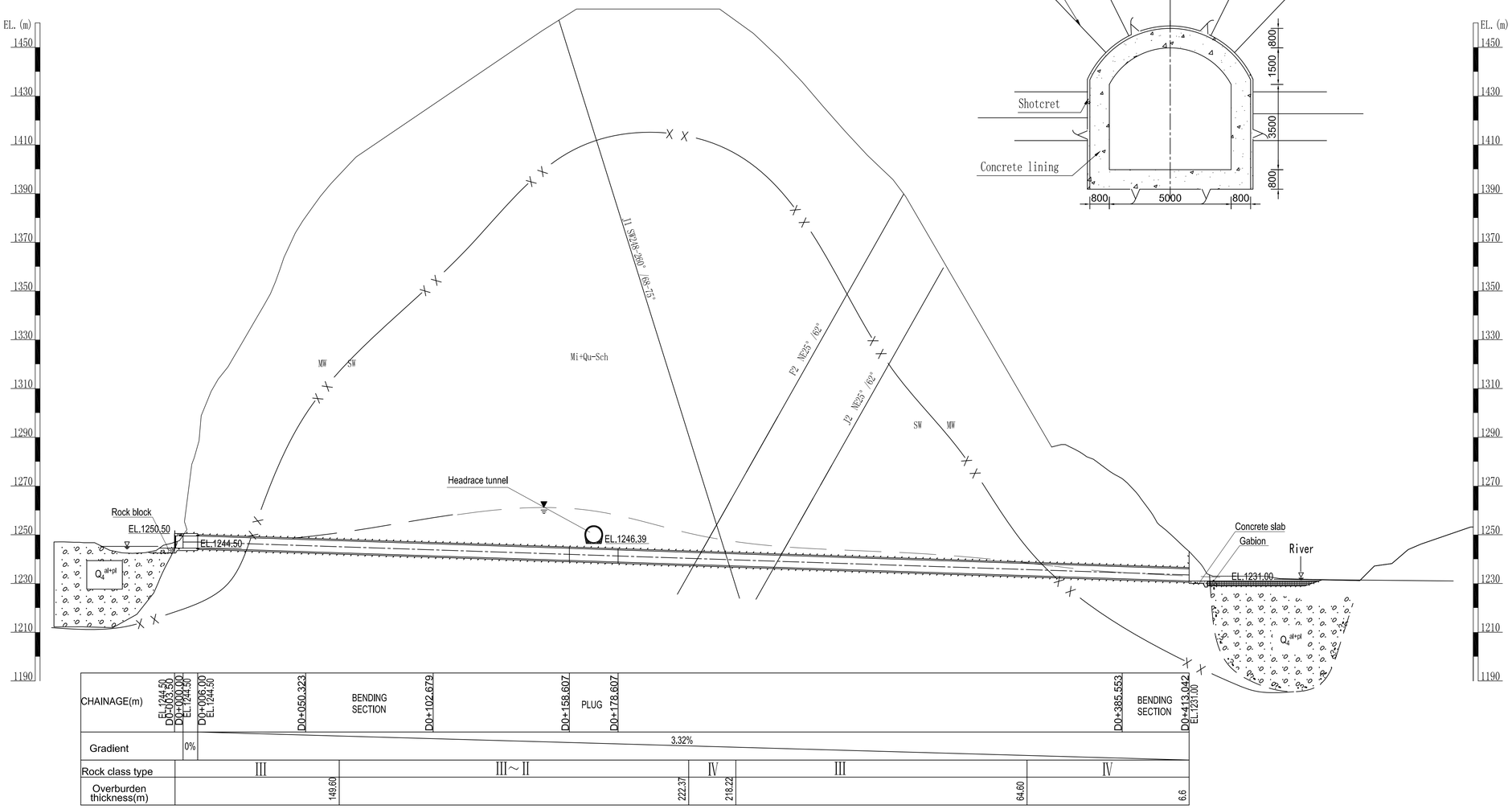
ARRANGEMENT DRAWING OF DIVERSION TUNNEL(1/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42001	1 OF 2	C

A1 (594 x 841 MM)

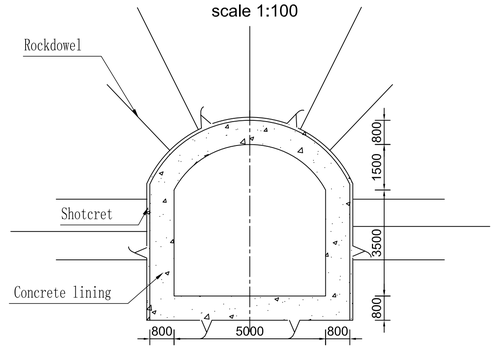
LONGITUDINAL PROFILE OF DIVERSION TUNNEL

SCALE 1:1000



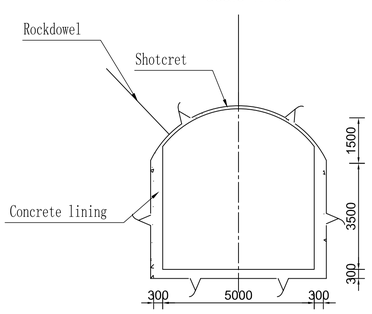
TYPICAL CROSS SECTION OF INTERSECTION OF HEADRACE AND DIVERSION TUNNEL

scale 1:100



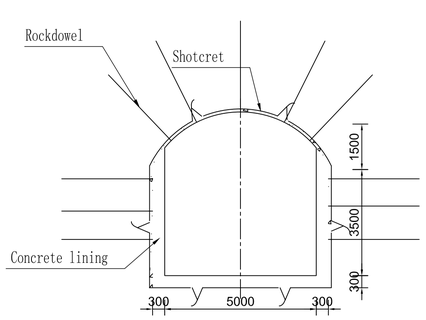
TYPICAL CROSS SECTION OF II

scale 1:100



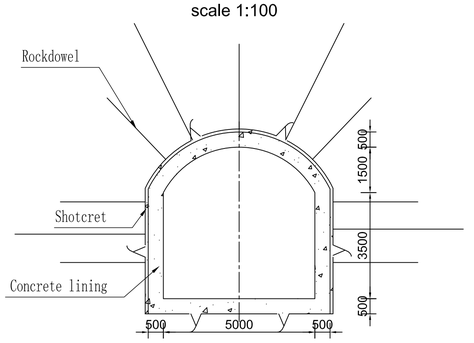
TYPICAL CROSS SECTION OF IIIa,IIIb

scale 1:100



TYPICAL CROSS SECTION OF IV

scale 1:100



NOTE

1. All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
2. Details of surrounding rock support and lining of each RMG refer to subsequent drawings.
3. The distribution of rock classes is tentative.
4. Tunnel support and tunnel lining are subject to approval.
5. Scale:

1:1000 0 10 20 30 40 50m

1:100 0 1 2 3 4 5m

REFERENCE DRAWINGS

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TRACTEBEL ENGIE JADE CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

ARRANGEMENT DRAWING OF DIVERSION TUNNEL(2/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42001	2 OF 2	C

A1 (594 x 841 MM)